

Transactional Facility Management Standard (FMSFIE)

for facilities, infrastructure, & environment

Naming Convention and Structure Specification

Version 2 Date – April 28, 2003

The CADD/GIS Technology Center For facilities, infrastructure, and environment Information Technology Laboratory U.S. Army Engineer Research and Development Center Vicksburg, Mississippi

Definitions

Transactional - Transactional is defined as communicative actions or activities, involving multiple parties or things that reciprocally affect each other in a near real time setting that is based on life cycle events.

Facilities, Infrastructure, and Environment - Facilities, Infrastructure, and Environment is recognized as the focal point for utilization and management capabilities that Computer Aided Drafting and Design, Geospatial Information, and Facility Management support. The Facilities, Infrastructure and Environmental establishes a cooperative interaction of private, public, and academic resources for the investigation, verification, and transfer of integrated information.

Background

Initial development of the FMSFIE began in 1997. An underlying criteria for development of the FMSFIE has been to provide integration with the CADD/GIS Technology Center's CADD (AEC CADD Standard) and GIS (SDSFIE) data standards. Several different strategies were evaluated for integration of the FMSFIE within the SDSFIE and A/E/C CADD Standard. It was determined that, initially, the FMSFIE would be incorporated within the SDSFIE data model (designated as FM Entity Classes within the appropriate SDSFIE Entity Sets). This stage of FMSFIE development focused on: (1) Development of "business" FM, "event," and temporal information (e.g., construction, operation, maintenance, repair, and inspection records) concerning the "real-world" features/objects depicted in the SDSFIE and Architectural, Engineering, and Construction (A/E/C)/CADD Standard, and (2) Development of the capability to link to and share data with "corporate" databases, computerized information management systems, computer maintenance management systems, and commercially available FM software.

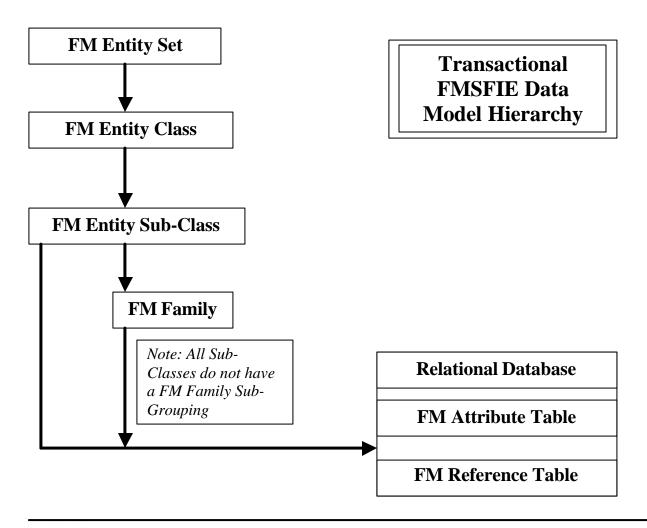
The first release of the FMSFIE (formerly called Tri-Service Facility Management Standards (TSFMS), and Facility Management Standards (FMS)) was published with Release 1.80 of the SDSFIE (formerly called Tri-Service Spatial Data Standards (TSSDS)) in February 1999.

In Fiscal Year 2000, the CADD/GIS Technology Center's Standards Working Group (SWG) and Corporate Staff (CS) approved a FMSFIE development Strategic Plan (http://tsc.wes.army.mil/products/tssds-tsfms/fms/projects/fmsfiepr.htm), which provided a framework and strategy for evolution of the FMSFIE to a more robust "transactional" data model closely integrated with the SDSFIE & A/E/C CADD Standard. Development of the "transactional" FMSFIE data model and standard began in Fiscal Year 2000, with an initial focus on Asset Management. Its first release will be included with the SDSFIE & FMSFIE Release 2.30, scheduled to be completed in September 2003. The transactional FMSFIE defines a data model and data dictionary for facility management legal and Federal data reporting requirements encompassing the areas of asset management, work management, environmental management, public safety management, organization management, information security management, and financial management. In addition, the design of the FMSFIE will facilitate the sharing of data between various facility management (FM) information management systems (IMS) (e.g., Army Integrated Facilities System (IFS), Air Force Interim Work Information Management System (IWIMS), Air Force Automated Civil Engineer System (ACES), Navy Facility Assets Data Base

(NFADB), Army Corps of Engineers Facilities and Maintenance System (FEM), and OSD RPES).

Like the SDSFIE, the transactional FMSFIE is being designed for implementation using commercially available relational database software (e.g., Oracle and SQL Server) and a Microsoft Windows Operating System (e.g., Windows 2000, XP, & NT). The FMSFIE is non-proprietary, thereby permitting other organizations, contractors, and vendors the ability to freely use the data schema and data dictionary, share FMSFIE compliant data with other organizations, and build applications based upon the FMSFIE data schema.

Transactional FMSFIE Data Model Hierarchy



Entity Set - Broad grouping of real property management responsibilities.

Entity Class – Sub-grouping of an Entity Set providing a grouping of similar real property classifications based on legal reporting requirements.

Entity Sub-Class – Sub-grouping of an Entity Class based on similar life-cycle event and temporal real property information.

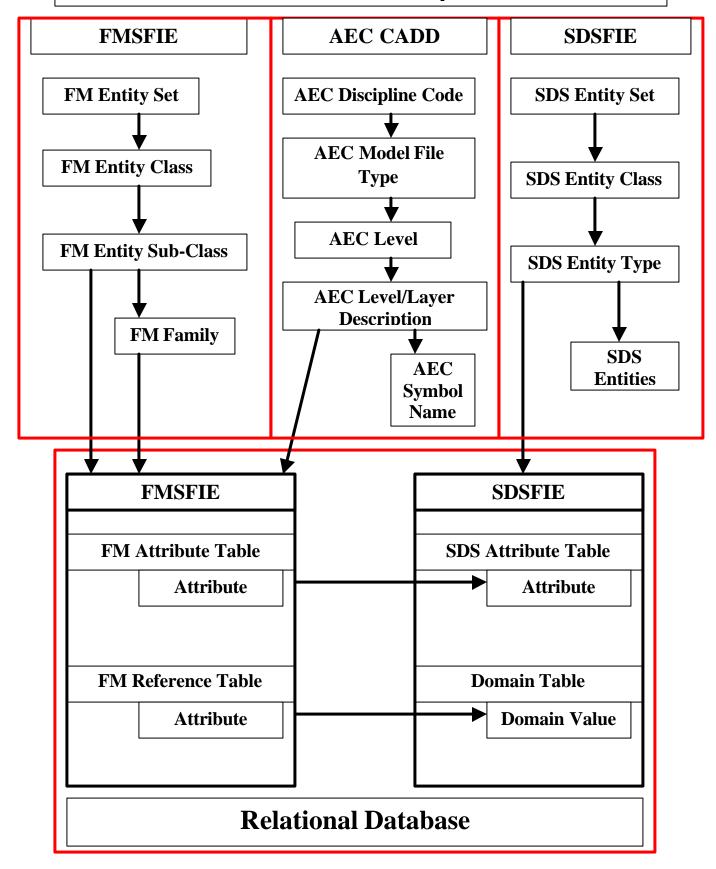
Family – A functional sub-group of the SUB-CLASS corresponding to different business disciplines, or different perspectives in the way the data is structured below the Entity Sub-Class.

Attribute Table – Relational database table comprising a grouping of similar records.

Reference Table – Relational database table with joins to one or more Domain Tables, and descriptive information concerning the reference table.

Domain Table –Database table containing a listing of valid (also called permissible or reference) values. Also called a "look-up" table.

CADD/GIS/FM Standards Development Data Model



Transactional FMSFIE Naming Convention Criteria

Transactional FMSFIE Naming Convention Criteria

- 1. Entity Set Broad grouping of real property management responsibilities.
 - a. Name 32 characters
 - b. Abbreviation 2 characters
 - c. Class Prefix 12 characters
 - d. Common Name Prefix 15 characters
 - e. Table Prefix 2 characters
- **2.** Entity Class Sub-grouping of an Entity Set providing a grouping of similar real property classifications based on legal reporting requirements.
 - a. Name -32 characters
 - b. Abbreviation 3 characters
 - c. Table Prefix 5 characters
- **3.** Entity Sub-Class Sub-grouping of an Entity Class based on similar life-cycle event and temporal real property information.
 - a. Name 32 characters
 - b. Abbreviation 3 characters
 - c. Table Prefix 8 characters
- **4. Family** A functional sub-group of the SUB-CLASS corresponding to different business disciplines, or different perspectives in the way the data is structured below the Entity Sub-Class. If no functional sub-group applies to the entity, a Family of "NONE" ("non") will be assigned.
 - a. Name 32 characters
 - b. Abbreviation 3 characters
 - c. Table Prefix 11 characters

5. Attribute Table –

- a. Logical Table Name –
- (1) Maximum Length = 75 characters.
- (2) Criteria = Family Name/Space/Table Common Name (e.g., Water Tank). Used in data model.
- b. Table Common Name –
- (1) Maximum Length = 50 characters.
- (2) Criteria = Use name meaningful to user.
- c. Table Physical Name –
- (1) Maximum Length = 30 characters.
- (2) Criteria = Use name meaningful to user.
- d. Table Physical Code –
- (1) Maximum Length = 14 characters
- (2) Criteria = Composed of following abbreviations concatenated together:
 - (a) Entity Set (first 2 characters) (e.g., AM = Asset Management).
 - (b) Entity Class (next 3 characters) (e.g., FAC = Facility).
 - (c) Entity Sub-Class (next 3 characters) (e.g., UTL = Utilities).
 - (d) Family (next 3 characters) (e.g., WAT = Water System).
 - (e) Table (next 3 characters) (e.g., TNK = Tank).

6. Attribute –

- a. Logical Attribute Name –
- (1) Maximum Length = 100 characters.
- (2) Criteria
 - (a) Use DISA data element (attribute name if one exists). Otherwise follow DISA data element (attribute) naming conventions.
 - (b) Logical Name must be unique within each table.
 - (c) Logical Name composed of following sequence in data model:
 - Logical Data Model Table Name (e.g., Water Tank).
 - Property Modifier (optional) (e.g., Install).
 - Class Modifier (optional) (e.g., Start).
 - DISA Class Word (e.g., Date).
 - Example Water Tank Install Start Date
- b. Common Attribute Name –
- (1) Maximum Length = 100 characters.
- (2) Criteria
 - (a) Named so that it is meaningful to user.
 - (b) Common Name must be unique within each table.
 - (c) Common Name composed of following sequence:
 - Common Table Name (optional) (e.g., Tank).
 - Property Modifier (optional) (e.g., Install).

- Class Modifier (optional) (e.g., Start).
- DISA Class Word (recommended) Date
- Example Tank Install Start Date
- c. Physical Attribute Name –
- (1) Maximum Length -30 characters
- (2) Criteria –
- (a) Use DISA data element (attribute) access name if one exists. DISA class word abbreviations to be used in physical attribute names (if applicable).
 - (b) Keys (primary and foreign) do not end in _id (except keys linking to SDSFIE).
- (c) Fields with associated domain (reference) tables will not be specified with a particular class word or abbreviation (i.e., not with d or cd).
- (d) If DISA data element access name does not exist, Attribute Name will be composed of the following sequence of abbreviations. (at least one of the optional abbreviations is required):
 - Table Name (optional) (e.g., TNK).
 - Property Modifier (optional) (e.g., INSTL).
 - Class Modifier (optional) (e.g., START).
 - DISA Class Word (e.g., DT)
 - Example TNK_INSTL_START_DT

Transactional FMSFIE Entity Set Naming Conventions

Transactional FMSFIE Entity Set Naming Conventions

Transactional FMSFIE Entity Sets – Seven Entity Sets are currently established:

- Asset Management
- Work Management
- Environmental Management
- Financial Management
- Public Safety Management
- Organization Management
- Information Security Management
- 1. Asset Management Items comprising the federal real property inventory and other related entities based on classification and need to support organizational requirements. Includes: (1) Tangible items comprising the federal real property inventory that can be referenced by location, and (2) Non-tangible items that cannot always be defined by a location, or do not exist as an inventory item in the real property management inventory.
 - (1) Name Assets
 - (2) Abbreviation AM
 - (3) Class Prefix assets
 - (4) Common Name Prefix Assets
 - (5) Table Prefix AM
- **2. Work Management** Change management processes that consist of planning, programming, acquisition, operations, maintenance, revitalization, evaluation, and disposal actions affecting real property and other related entities.
 - (1) Name Work
 - (2) Abbreviation WM
 - (3) Class Prefix work
 - (4) Common Name Prefix Work
 - (5) Table Prefix WM
- **3. Environmental Management** Defines the stewardship responsibilities as they relate to the federal real property environmental management practices.
 - (1) Name Environmental
 - (2) Abbreviation EM
 - (3) Class Prefix env
 - (4) Common Name Prefix Environmental
 - (5) Table Prefix EM

- **4. Financial Management** Planning, programming, and execution of appropriations associated with real property management.
 - (1) Name Financial
 - (2) Abbreviation FM
 - (3) Class Prefix financial
 - (4) Common Name Prefix Financial
 - (5) Table Prefix FM
- **5. Public Safety Management** Issues related to the protection of personnel and property.
 - (1) Name Public Safety
 - (2) Abbreviation SM
 - (3) Class Prefix safety
 - (4) Common Name Prefix Public Safety
 - (5) Table Prefix SM
- **6. Organization Management** A structured grouping of personnel and the roles they perform as it relates to an integrated work environment.
 - (1) Name Organization
 - (2) Abbreviation OM
 - (3) Class Prefix organization
 - (4) Common Name Prefix Organization
 - (5) Table Prefix OM
- **7. Information Security Management** Controlled access to data and information as it relates to the roles of personnel.
 - (1) Name Information Security
 - (2) Abbreviation IM
 - (3) Class Prefix information
 - (4) Common Name Prefix Information
 - (5) Table Prefix IM

Transactional FMSFIE Entity Class Naming Conventions

Notes:

- 1. Data elements denoted in blue are included in the FY03 release of the transactional FMSFIE.
- 2. "core" ("cor"), with a mandatory sub-class of "base" ("bas"), represents a special case of the CLASS structure indicating an entity whose implementation not only crosses multiple CLASSES, but, potentially, multiple ENTITY SETS. These entities are NOT separately modeled but may be referenced from any of the Facility Management Standard Entity Sets.

Entities with a class name of "core" and a sub-class name of "base" fall into two "FAMILIES". These are "reference" ("ref"), which includes those entities containing discrete domain values referenced from multiple attributes, and "generic" ("gen") which contain entities with data common throughout the FMSFIE Standard model.

3. Reference Tables will be placed within the most appropriate Class, Subclass, & Family. Example:

FM Entity Set – Assets
Table Name – Space Type Reference
FM Entity Class – Facility
FM Entity Subclass – Building
FM Family - Space

A. Entity Set - Asset Management – 6 Entity Classes are currently established:

- Core
- Facility
- Equipment
- Land
- Non-Tangible
- Transportation

	Asset Management Entity Set				
Entity Class Name	Abbreviation	Table Prefix	Definition		
Core	cor	amcor	Common and parent tables for the Asset Entity Set.		
Facility	fac	amfac	Inventory of tangible real property improvements, e.g., buildings, structures, and utilities. Comprises Department of Defense (DoD) Real Property Class 2.		
Equipment	equ	amequ	Inventory of personal property and plant equipment. Comprises DoD Real Property Class 3.		
Land	lan	amlan	Inventory of tangible real property associated with land. DoD Real Property Class 1.		
Non-Tangible	nta	amnta	Inventory of items which cannot always be defined by a location, or do not exist as an inventory item in real property management.		
Transportation	tra	amtra	Inventory of transportation equipment.		

B. Entity Set - Work Management – 6 Entity Classes are currently established:

- Core Service
- Construction
- Operations
- Lease
- Equipment

	Work Management Entity Set			
Entity Class	Abbreviation	Table	Definition	
Name		Prefix		
Core	cor	wmcor	Common and parent tables for Work	
			Entity Set.	
Service	svc	wmsvc	Useful labor that does not produce a tangible	
			commodity. Can include "management and	
			professional support services" which means	
			labor that provides engineering or technical	
			support, assistance, advice, or training for the	
			efficient and effective management and	
			operation of organizations, activities, or	
			systems. Those services include efforts that support or contribute to improved	
			organization or program management,	
			logistics management, project monitoring and	
			reporting, data collection, budgeting,	
			accounting, auditing, and administrative or	
			technical support for conferences and training	
			programs. Service also includes,	
			"engineering and technical services" means	
			labor that take the form of advice, assistance,	
			training, or hands-on training necessary to	
			maintain and operate fielded weapon systems,	
			equipment, and components (including	
			software when applicable) at design or	
			required levels of effectiveness. Can also	
			include custodial services. (31 USC 1105 and	
			10 USC 2212)	
Construction	con	wmcon	Construction includes surveys and site	
			preparation; acquisition, conversion,	
			rehabilitation, and installation of facilities;	
			acquisition and installation of equipment and	
			appurtenances integral to the project; acquisition and installation of supporting	
			facilities (including utilities) and	
			racinues (including utilities) and	

Operations	ops	wmops	appurtenances incident to the project; and planning, supervision, administration, and overhead incident to the project. (10 USC 2802) A military action or the carrying out of a strategic, operational, tactical, service, training, or administrative military mission. Includes research, development, testing and evaluation (T&E), and range and training, (Joint Publication 1-02 "Department of Defense Dictionary of Military and Associated Terms," 9 January 2003 and MFS working group 4-1-2003).
Lease	lea	wmlea	An agreement conveying the right to use property, plant, or equipment (land, depreciable assets, or both), usually for a stated period of time. For financial statement reporting and disclosure purposes, leases are classified as either capital or operating based on specific criteria. Capital leases are contracts or agreements for the use of personal or real property items that possess the characteristics of a purchase and transfers all the benefits and risks of ownership to the lessee. An operating lease is an agreement conveying the right to use property for a limited time in exchange for periodic rental payments. [US Department of Commerce Accounting Principles for NOAA -]
Equipment Installation	equ	wmequ	Modifications to real property improvements such as buildings, structures, ground improvement structures, and utilities required solely for the installation of an item of personal property. Such personal property includes accessories and furnishings that are moveable and not affixed or integral to the facility. [OPNAV 11010.20 Facilities Project Manual]

C. Entity Set - Environmental Management – 6 Entity Classes are currently established:

- Core
- Compliance
- Restoration
- Pollution Prevention
- Conservation
- Environmental Sampling

	Environmental Management Entity Set			
Entity Class Name	Abbreviation	Table Prefix	Definition	
Core	cor	emcor	Common and parent tables for Environmental Entity Set.	
Compliance	svc	emcsv	Includes all activities and projects that utilize end-of-pipe treatment or disposal methods to meet applicable environmental requirements (DOD Instruction 4715.4 Pollution Prevention). An end-of-pipe discharge is waste that is released directly out of the end of a pipe into an environmental media such as soil, water, air, or groundwater. An end-of-pipe treatment is any effort to control, limit, or reduce the toxicity of such a discharge before it is released into the environment. (derived from GSA's Storm Water Pollution Prevention Fact Sheet dated November 1998	
Restoration	res	emres	The term "environmental restoration" means actions taken consistent with a permanent remedy to prevent or minimize the release of hazardous substances into the environment so that such substances do not migrate to cause substantial danger to present or future public health or welfare or the environment. (10 USC 2701 Notes)	
Pollution Prevention	pol	empol	Means "source reduction," as defined in the Pollution Prevention Act (PPA), and other practices that reduce or eliminate the creation of pollutants through increased efficiency in the use of raw materials, energy, water, or other resources; or protection of natural resources by conservation or recycling. Source Reduction" means any practice which reduces the amount of any hazardous	

			substance, pollutant, or contaminant entering
			any waste stream or otherwise released into
			the environment (including fugitive
			emissions) prior to recycling, treatment, or
			disposal; and reduces the hazards to public
			health and the environment associated with
			the release of such substances, pollutants, or
			contaminants. The term includes equipment
			or technology modifications, process or
			procedure modifications, reformulation or
			redesign of products, substitution of raw
			materials, and improvements in
			housekeeping, maintenance, training, or
			inventory control. "Source reduction" does
			not include any practice which alters the
			physical, chemical, or biological
			characteristics or the volume of a hazardous
			substance, pollutant, or contaminant through a
			process or activity which itself is not integral
			to and necessary for the production of a
			product or the providing of a service. (
			derived from 42 USC 11001 Notes and 42
C			USC 13102.]
Conservation	cmp	emcmp	The terms "conserve", "conserving",
			and "conservation" mean to use, and the
			use of, such methods and procedures which
			are necessary to ensure, to the maximum
			are necessary to ensure, to the maximum extent practicable, the well being and
			are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their
			are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational,
			are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific
			are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific enrichment of the public. Such methods and
			are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific
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			are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific enrichment of the public. Such methods and procedures may include, but are not limited to, any activity associated with scientific resources management, such as research, census, law enforcement, habitat acquisition, maintenance, development, information education, population manipulation, propagation, technical assistance to private landowners, live trapping, and transplantation
Environmental		omaan	are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific enrichment of the public. Such methods and procedures may include, but are not limited to, any activity associated with scientific resources management, such as research, census, law enforcement, habitat acquisition, maintenance, development, information education, population manipulation, propagation, technical assistance to private landowners, live trapping, and transplantation (16 USC 2902)
Environmental Sampling	sam	emsam	are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific enrichment of the public. Such methods and procedures may include, but are not limited to, any activity associated with scientific resources management, such as research, census, law enforcement, habitat acquisition, maintenance, development, information education, population manipulation, propagation, technical assistance to private landowners, live trapping, and transplantation (16 USC 2902) The all-encompassing act of monitoring the
Environmental Sampling	sam	emsam	are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific enrichment of the public. Such methods and procedures may include, but are not limited to, any activity associated with scientific resources management, such as research, census, law enforcement, habitat acquisition, maintenance, development, information education, population manipulation, propagation, technical assistance to private landowners, live trapping, and transplantation (16 USC 2902) The all-encompassing act of monitoring the environment, measuring, collecting and
	sam	emsam	are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific enrichment of the public. Such methods and procedures may include, but are not limited to, any activity associated with scientific resources management, such as research, census, law enforcement, habitat acquisition, maintenance, development, information education, population manipulation, propagation, technical assistance to private landowners, live trapping, and transplantation (16 USC 2902) The all-encompassing act of monitoring the environment, measuring, collecting and analyzing samples of air, water, soil,
	sam	emsam	are necessary to ensure, to the maximum extent practicable, the well being and enhancement of fish and wildlife and their habitats for the ecological, educational, esthetic, cultural, recreational, and scientific enrichment of the public. Such methods and procedures may include, but are not limited to, any activity associated with scientific resources management, such as research, census, law enforcement, habitat acquisition, maintenance, development, information education, population manipulation, propagation, technical assistance to private landowners, live trapping, and transplantation (16 USC 2902) The all-encompassing act of monitoring the environment, measuring, collecting and

to show that applicable standards are met, to assess exposures to members of the public, and to assess effects, if any, on the environment. [Jefferson Labs, US]
Department of Energy 2003)

D. Entity Set - Financial Management – 6 Entity Classes are currently established:

- Core
- Contracts
- Civilian Workforce
- Material
- Training
- Travel

Financial Management Entity Set			
Entity Class Name	Abbreviation	Table Prefix	Definition
Core	cor	fmcor	Common and parent tables for Financial Entity Set.
Contracts	cnt	fment	-
Civilian Workforce	civ	fmciv	
Material	mat	fmmat	
Training	trg	fmtrg	
Travel	trv	fmtrv	

E. Entity Set - Public Safety Management – 7 Entity Classes have been established:

- Core
- Environmental
- Emergency Response
- Occupational Health
- Force Protection
- Explosives
- Fire

	Public Safety Management Entity Set			
Entity Class Name	Abbreviation	Table Prefix	Definition	
Core	cor	smcor	Common and parent tables for Public Safety Entity Set.	
Environmental Work Place	env	smenv	Relating to the establishment and other locations where one or more employees are working or are present as a condition of their employment. The work environment includes not only physical locations, but also the equipment or materials used by the employee during the course of his or her work. [29 CFR 1904.5(b)]	
Emergency Response	emg	smemg	Means a response effort by employees from outside the immediate release area or by other designated responders (i.e., mutual aid groups, local fire departments, etc.) to an occurrence which results, or is likely to result, in an uncontrolled release of a hazardous substance. Responses to incidental releases of hazardous substances where the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate release area, or by maintenance personnel are not considered to be emergency responses within the scope of this standard. Responses to releases of hazardous substances where there is no potential safety or health hazard (i.e., fire, explosion, or chemical exposure) are not considered to be emergency responses. (29 CFR 1910.120)	
Explosives	exp	smexp	Any chemical compound mixture, or device, the primary or common purpose of which is	

			to function by explosion; the term includes, but is not limited to, dynamite and other high explosives, black powder, pellet powder, initiating explosives, detonators, safety fuses, squibs, detonating cord, igniter cord, and igniters. (18 USC 841)
Force Protection	for	smfor	Security program developed to protect Service members, civilian employees, family members, facilities and equipment, in all locations and situations, accomplished through the planned and integrated application of combating terrorism, physical security, operations security, personal protective services supported by intelligence, counterintelligence, and other security programs [1998 FBI Guidance Publication]
Occupational Health	osh	smosh	The conditions, or the adoption or use of one or more practices, means, methods, operations, or processes, reasonably necessary or appropriate to provide safe or healthful employment and places of employment. [29 USC 652]
Fire Protection	fir	smfir	The term "fire protection" includes personal services and equipment required for fire prevention, the protection of life and property from fire, and fire fighting; The term "fire organization" means any governmental entity or public or private corporation or association maintaining fire protection facilities within the United States, its Territories and possessions, and any governmental entity or public or private corporation or association which maintains fire protection facilities in any foreign country in the vicinity of any installation of the United States (42 USC 1856)

F. Entity Set - Organization Management – 4 Entity Classes have been established:

- Core
- People
- Roles
- Workflow

Organization Management Entity Set			
Entity Class Name	Abbreviation	Table Prefix	Definition
Core	cor	omcor	Common and parent tables for Organization Management Entity Set.
People	peo	ompeo	
Roles	rol	omrol	
Workflow	wrk	omwrk	

G. Entity Set - Information Security Management – 4 Entity Classes have been established:

- Core
- Databases
- Networks
- Applications

Information Security Management Entity Set			
Entity Class Name	Abbreviation	Table Prefix	Definition
Core	cor	imcor	Common and parent tables for Information Security Management Entity Set.
Databases	dbs	imdbs	
Networks	net	imnet	
Applications	app	imapp	

Transactional FMSFIE Entity Sub-Class Naming Conventions

Notes:

- 1. Data elements denoted in blue are included in the FY03 release of the transactional FMSFIE.
- 2. "core" ("cor"), with a mandatory sub-class of "base" ("bas"), represents a special case of the CLASS structure indicating an entity whose implementation not only crosses multiple CLASSES, but, potentially, multiple ENTITY SETS. These entities are NOT separately modeled but may be referenced from any of the Facility Management Standard Entity Sets.

Entities with a class name of "core" and a sub-class name of "base" fall into two "FAMILIES". These are "reference" ("ref"), which includes those entities containing discrete domain values referenced from multiple attributes, and "generic" ("gen") which contain entities with data common throughout the FMSFIE Standard model.

3. Reference Tables will be placed within the most appropriate Class, Subclass, & Family. Example:

FM Entity Set – Assets
Table Name – Space Type Reference
FM Entity Class – Facility
FM Entity Subclass – Building
FM Family - Space

A. Entity Set - Asset Management -

- **1.** Entity Class Core 1 Entity Sub-Class is currently established:
 - Base

Asset Management Entity Set – Core Entity Class			
Entity Sub- Class Name	Abbreviation	Table Prefix	Definition
Base	bas	amcorbas	Common and parent tables for Asset Entity Set, Core Entity Class.

- **2. Entity Class Facility** 4 Entity Sub-Classes have been established:
 - Base
 - Building
 - Utility
 - Structure

I	Asset Management Entity Set – Facility Entity Class			
Entity Sub- Class Name	Abbreviation	Table Prefix	Definition	
Base	bas	amfacbas	Common and parent tables for Asset Entity Set, Facility Entity Class.	
Building	blg	amfacblg	Inventory of tangible real property improvements, which comprise the components of a building (Includes utilities located within a building) (DoD Real Property Class 2).	
Utility	utl	amfacutl	Inventory of tangible real property improvements, which comprise the components of a utility (Includes utilities located exterior of buildings) (DoD Real Property Class 2).	
Structure	str	amfacstr	Inventory of tangible real property ground improvements structures not associated with a building or utility (DoD Real Property Class 2).	

3. Entity Class – Equipment – 4 Entity Sub-Classes have been established:

- Base
- Industrial
- Minor Property
- Personal

A	Asset Management Entity Set – Equipment Entity Class			
Entity Sub-	Abbreviation	Table	Definition	
Class Name		Prefix		
Base	bas	amequbas	Common and parent tables for Asset Entity Set,	
			Equipment Entity Class.	
Industrial	ind	amequind	Inventory of fixed and large industrial plant	
			equipment (DoD Real Property Class 3).	
Minor	mpr	amequmpr	Inventory of minor equipment (Do D Real	
Property			Property Class 3).	
Personal	per	amequper	Inventory of personal equipment (DoD Real	
			Property Class 3).	

4. Entity Class – Land – 6 Entity Sub-Classes have been established:

- Base
- Improved
- Semi-Improved
- Unimproved
- Easement
- Other

	Asset Management Entity Set – Land Entity Class			
Entity Sub-	Abbreviation	Table	Definition	
Class Name		Prefix		
Base	bas	amlanbas	Common and parent tables for Asset Entity Set,	
			Land Entity Class.	
Improved	imp	amlanimp	Land on which buildings, structures, or other	
			improvements are located, or which has been	
			prepared for a specific use (e.g., golf courses).	
Semi-	sim	amlansim	Land which has undergone some preparation	
Improved			for one or more uses (e.g., walking trails).	
Unimproved	uim	amlanuim	Land which remains in its natural state.	
Easement	eas	amlaneas	A nonprofitable interest in land owned by	
			another that entitles its holder to a specific	
			limited use or enjoyment.	
Other	oth	amlanoth	Land which does not conform to the improved,	
			semi-improved, unimproved, or easement	
			category.	

5. Entity Class – Transportation – 4 Entity Sub-Classes have been established:

- Base
- Material Handling Equipment
- Vehicles
- Weight Handling Equipment

Asse	Asset Management Entity Set – Transportation Entity Class				
Entity Sub-	Abbreviation	Table	Definition		
Class Name		Prefix			
Base	bas	amtrabas	Common and parent tables for Asset Entity Set,		
			Transportation Entity Class.		
Material	mhe	amtramhe	Equipment whose purpose is earthwork, or		
Handling			moving construction material.		
Equipment					
Vehicles	veh	amtraveh	Automobiles, trucks, and other types of		
			vehicles.		
Weight	whe	amtrawhe	Equipment whose purpose is moving heavy		
Handling			items from one location to another.		
Equipment					

6. Entity Class – Non-Tangible – 3 Entity Sub-Classes have been established:

- Base
- Proposed Leases
- Proposed Assets

Asse	Asset Management Entity Set – Non-Tangible Entity Class				
Entity Sub-	Abbreviation	Table	Definition		
Class Name		Prefix			
Base	bas	amntabas	Common and parent tables for Asset Entity Set,		
			Non-Tangible Entity Class.		
Proposed	ple	amntaple	Leases, which are conceptual in nature, or		
Leases			proposed for implementation some time in the		
			future.		
Proposed	pas	amntapas	Physical improvements which are conceptual in		
Assets			nature, or proposed for construction or		
			installation at some time in the future.		

B. Entity Set - Work Management -

- **1.** Entity Class Core 1 Entity Sub-Class is currently established:
 - Base

Work Management Entity Set – Core Entity Class			
Entity Sub- Abbreviation Table Definition			
Class Name		Prefix	
Base	bas	wmcorbas	Common and parent tables for Work
			Management Entity Set, Core Entity Class.

- **2. Entity Class Service –** 5 Entity Sub-Classes are currently established:
 - Base
 - Design
 - Inspection
 - Custodial
 - Moves

,	Work Management Entity Set – Service Entity Class			
Entity Sub-	Abbreviation	Table	Definition	
Class Name		Prefix		
Base	bas	wmsvcbas	Common and parent tables for Work	
			Management Entity Set, Service Entity Class.	
Design	des	wmsvcdes	The process of preparing a specific plan for	
			the construction, repair, demolition, or	
			reno vation of one or more assets.	
Inspection	ins	wmsvcins	The process of observing and recording the	
			physical appearance, condition, or status of	
			one or more assets.	
Custodial	cus	wmsvccus	The process of performing routine cleaning	
			and maintenance activities associated with one	
			or more assets.	
Moves	mov	wmsvcmov	The process of managing spaces.	

3. Entity Class – Construction – 5 Entity Sub-Classes are currently established:

- Base
- Alterations
- Improvements
- Repair/Demolition
- Maintenance

Work N	Work Management Entity Set – Construction Entity Class					
Entity Sub-Class Name	Abbreviation	Table Prefix	Definition			
Base	bas	wmconbas	Common and parent tables for Work Management Entity Set, Construction Entity Class.			
Alterations	alt	wmconalt	The process of altering, or renovating, one or more existing assets (e.g., adding a room to an existing building).			
Improvements	imp	wmconimp	The process of constructing, or installing, one or more new assets (e.g., constructing a new building).			
Repair/Demolition	rde	wmconrde	The process of repairing, or demolishing, constructing, one or more existing assets (e.g., constructing a new building).			
Maintenance	mnt	wmconmnt	The process of performing maintenance activities associated with one or more new assets (e.g., constructing a new building).			

4. Entity Class – Operations – 6 Entity Sub-Classes are currently established:

- Base
- Transportation
- Utility
- Airfield
- Real Estate
- Range & Training

Wo	Work Management Entity Set – Operations Entity Class				
Entity Sub-	Abbreviation	Table	Definition		
Class Name		Prefix			
Base	bas	wmopsbas	Common and parent tables for Work		
			Management Entity Set, Operations Entity		
			Class.		
Transportation	tra	wmopstra	Processes and functions associated with the		
			operation of transportation facilities.		
Utility	utl	wmopsutl	Processes and functions associated with the		
			operation of utility facilities.		
Airfield	air	wmopsair	Processes and functions associated with the		
		_	operation of utility facilities.		
Real Estate	res	wmopsres	Processes and functions associated with the		
			management of real estate.		
Range &	rtr	wmopsrtr	Processes and functions associated with the		
Training			operation of range and training facilities.		

- **5. Entity Class Lease** 5 Entity Sub-Classes are currently established:
 - Base
 - Building
 - Relocatable
 - Equipment
 - Land

	Work Management Entity Set – Lease Entity Class				
Entity Sub-	Abbreviation	Table	Definition		
Class Name		Prefix			
Base	bas	wmleabas	Common and parent tables for Work		
			Management Entity Set, Lease Entity Class.		
Building	blg	wmleablg	Processes and functions associated with the		
			leasing of buildings.		
Relocatable	rel	wmlearel	Processes and functions associated with the		
			leasing of relocatable assets.		
Equipment	equ	wmleaequ	Processes and functions associated with the		
			leasing of equipment.		
Land	lnd	wmlealnd	Processes and functions associated with the		
			leasing of land.		

6. Entity Class – Equipment – 4 Entity Sub-Classes are currently established:

- Base
- Installation
- Maintenance
- Disposal

W	Work Management Entity Set – Equipment Entity Class			
Entity Sub-	Abbreviation	Table	Definition	
Class Name		Prefix		
Base	bas	wmequbas	Common and parent tables for Work	
			Management Entity Set, Equipment Entity	
			Class.	
Installation	ins	wmequins	Processes and functions associated with the	
			installation and setup of equipment.	
Maintenance	mnt	wmequmnt	Processes and functions associated with the	
			maintenance of equipment.	
Disposal	dis	wmequdis	Processes and functions associated with the	
			disposal of equipment.	

C. Entity Set - Environmental Management -

- **1. Entity Class Core –** 1 Entity Sub-Class is currently established:
 - Base

Environmental Management Entity Set – Core Entity Class			
Entity Sub- Abbreviation Table Definition			
Class Name		Prefix	
Base	bas	emcorbas	Common and parent tables for Environmental
			Management Entity Set, Base Entity Class.

- **2.** Entity Class Compliance 15 Entity Sub-Classes are currently established:
 - Base
 - NPDES Permits
 - Air Emission Permits
 - Solid/Hazardous Waste
 - Hazardous Materials
 - Regulated Storage Tanks
 - Drinking Water Quality
 - Right-to-Know
 - Toxic Releases
 - NEPA
 - Asbestos
 - Noise
 - Environmental Audits
 - Indoor Air Quality
 - Toxic Substances
 - Sustainable Development

Environmental Management Entity Set – Compliance Entity Class				
Entity Sub- Class Name	Abbreviation	Table Prefix	Definition	
Base	bas	emcombas	Common and parent tables for Environmental Management Entity Set, Compliance Entity Class.	
NPDES Permit	npd	emcomnpd	Processes and functions associated with the acquisition and monitoring of National Pollutant Discharge Elimination System (NPDES) permits.	
Air Emission Permit	aep	emcomaep	Processes and functions associated with the acquisition and monitoring of air emission permits.	
Solid & Hazardous Wast	shw	emcomshw	Processes and functions associated with the management, handling, transport, & disposal/treatment of solid and hazardous waste.	
Hazardous Material	hmt	emcomhmt	Processes and functions associated with the management, handling, transport, & disposal/treatment of hazardous materials.	
Regulated Storage Tank	rst	emcomrst	Processes and functions associated with the management, use, monitoring, and closing of regulated storage tanks.	
Drinking Water Quality	dwq	emcomdwq	Processes and functions associated with the management, protection, and monitoring of drinking water quality.	
Right to Know	rtk	emcomrtk	Processes and functions associated with compliance with the Federal right-to-know laws and regulations.	
Toxic Releases	trl	emcomtrl	Processes and functions associated with monitoring, response, and compliance with the Federal laws and regulations associated with toxic releases.	
NEPA	nep	emcomnep	Processes and functions associated with compliance with the Federal laws and regulations associated with the National Environmental Protection Act (NEPA).	
Asbestos	asb	emcomasb	Processes and functions associated with asbestos monitoring, abatement, and compliance with the Federal laws and regulations associated with asbestos.	
Noise	noi	emcomnoi	Processes and functions associated with noise monitoring, abatement, and compliance with the Federal laws and regulations associated with noise.	

Environmental Management Entity Set – Compliance Entity Class (Cont.)					
Entity Sub- Class Name	Abbreviation	Table Prefix	Definition		
Environmental Audits	eau	emcomeau	Processes and functions associated with conducting environmental audits.		
Indoor Air Quality	iaq	emcomiaq	Processes and functions associated with indoor air quality monitoring and compliance with the Federal laws and regulations associated with indoor air quality.		
Toxic Substances	tsb	emcomtsb	Processes and functions associated with toxic substances monitoring and control, and compliance with the Federal laws and regulations associated with toxic substances (e.g., lead, pcbs).		
Sustainable Development	sud	emcomsud	Processes and functions associated with sustainable development, and compliance with the Federal laws and regulations associated with sustainable development.		

3. Entity Class – Restoration – 10 Entity Sub-Classes are currently established:

- Base
- Preliminary Assessment
- Site Assessment
- Confirmation Study
- Record of Decision
- State Coordination
- Remedial Design
- Remedial Action
- Long-Term Monitoring
- UXO Clean-up

Environmental Management Entity Set – Restoration Entity Class				
Entity Sub- Class Name	Abbreviation	Table Prefix	Definition	
Base	bas	emresbas	Common and parent tables for Environmental Management Entity Set, Restoration Entity Class.	
Preliminary Assessment	pas	emrespas	Processes and functions associated with the accomplishment of an initial review (consisting of a field reconnaissance & record search) of a geographic area for the purpose of determining if current or past usage is suspected to have contributed to pollutants in the soil, sediment, surface water, or groundwater.	
Site Assessment	sas	emressas	Processes and functions associated with the accomplishment of a follow-up review of a geographic area for the purpose of determining if current or past usage is suspected to have contributed to pollutants in the soil, sediment, surface water, or groundwater.	
Confirmation Study	cst	emrescst	Processes and functions associated with the accomplishment of a thorough investigation of a geographic area for the purpose of verifying the extent of pollution to the soil, sediment, surface water, or groundwater.	
Record of Decision	rod	emresrod	Processes and functions associated with the accomplishment of a record of decision, an agreement between environmental regulatory agency and organization concerning schedule and methodology for accomplishing an environmental remediation effort.	

Environmental Management Entity Set – Restoration Entity Class (Cont.)				
Entity Sub- Class Name	Abbreviation	Table Prefix	Definition	
State Coordination	scr	emresscr	Processes and functions associated with coordination with state environmental regulatory agencies concerning environmental restoration efforts.	
Remedial Design	red	emresred	Processes and functions associated with the preparation of plans and specifications for accomplishment of an environmental restoration effort.	
Remedial Action	rac	emresrac	Processes and functions associated with the construction of remediation facilities and completion of an environmental restoration effort.	
Long Term Monitoring	ltm	emresltm	Processes and functions associated with the monitoring of remediation facilities (e.g., wells) constructed as a part of an environmental restoration effort.	
UXO Clean- up	uxo	emresuxo	Processes and functions associated with the removal and clean-up of unexploded ordnance.	

4. Entity Class – Pollution Prevention – 4 Entity Sub-Classes are currently established:

- Base
- Fuel
- Hazardous Material
- Risk Management

Environme	Environmental Management Entity Set – Pollution Prevention Entity Class				
Entity Sub-	Abbreviation	Table	Definition		
Class Name		Prefix			
Base	bas	empolbas	Common and parent tables for Environmental		
			Management Entity Set, Pollution Prevention		
			Entity Class.		
Fuel	ful	empolful	Processes and functions associated with the		
		_	prevention of fuel spills and hazards.		
Hazardous	hma	empolhma	Processes and functions associated with the		
Material			prevention of hazardous material spills and		
			hazards.		
Risk	rma	empolrma	Processes and functions associated with the		
Management			prevention, or minimization, of exposure of		
			humans to environmental pollution and		
			hazards.		

5. Entity Class – Conservation – 15 Entity Sub-Classes are currently established:

- Base
- Watershed/Source Water
- Wetlands Management
- Cultural/Historical Resources
- Endangered Species
- Fish/Wildlife
- Forestry
- Land Use Management
- Public Education
- Recreation

Environ	Environmental Management Entity Set – Conservation Entity Class			
Entity Sub- Class Name	Abbreviation	Table Prefix	Definition	
Base	bas	emconbas	Common and parent tables for Environmental Management Entity Set, Conservation Entity Class.	
Watershed & Source Water	wat	emconwat	Processes and functions associated with the protection and conservation of watersheds and source water supplies.	
Wetlands	wet	emconwet	Processes and functions associated with the protection and conservation of wetlands.	
Cultural & Historical Resources	cul	emconcul	Processes and functions associated with the protection and conservation of cultural and historical resources.	
Endangered Species	esp	emconesp	Processes and functions associated with the protection and conservation of endangered species.	
Fish & Wildlife	fwi	emconfwi	Processes and functions associated with the protection and conservation of fish and wildlife.	
Forestry	for	emconfor	Processes and functions associated with the protection and conservation of forested areas.	
Land Use	lau	emconlau	Processes and functions associated with comprehensive planning, and designation of areas for specific land uses.	
Public Education	ped	emconped	Processes and functions associated with the development and administration of public education activities.	
Recreation	rec	emconrec	Processes and functions associated with the development, maintenance, and conservation of designated areas for recreational purposes.	

5. Entity Class – Environmental Sampling – 5 Entity Sub-Classes are currently established:

- Base
- Sample Collection
- Sample Analysis
- Sample Results

Environme	Environmental Management Entity Set – Environmental Sampling Entity			
		\mathbf{C}	lass	
Entity Sub-	Abbreviation	Table	Definition	
Class Name		Prefix		
Base	bas	emsambas	Common and parent tables for Environmental	
			Management Entity Set, Environmental	
			Sampling Entity Class.	
Sample	sco	emsamsco	Processes and functions associated with the	
Collection			collection, packaging, recording, preservation,	
			and shipment of environmental samples.	
Sample	san	emsamsan	Processes and functions associated with the	
Analysis			collection, packaging, recording, preservation,	
·			and shipment of environmental samples.	
Sample	sre	emsamsre	Processes and functions associated with the	
Results			management, interpretation, and validation of	
			environmental sample analytical results.	

D. Entity Set - Financial Management -

- **1. Entity Class Core** 1 Entity Sub-Class is currently established:
 - Base

Financial Management Entity Set – Core Entity Class				
Entity Sub- Abbreviation Table Definition Class Name Prefix				
Base	bas	fmcorbas	Common and parent tables for Financial Management Entity Set, Base Entity Class.	

- **2.** Entity Class Contracts 1 Entity Sub-Class is currently established:
 - Base

Financial Management Entity Set – Contracts Entity Class			
Entity Sub- Abbreviation Table Definition			
Class Name		Prefix	
Base	bas	fmentbas	Common and parent tables for Financial
			Management Entity Set, Contracts Entity Class.

- **3.** Entity Class Civilian Workforce 1 Entity Sub-Class is currently established:
 - Base

Financial Management Entity Set – Civilian Workforce Entity Class				
Entity Sub- Abbreviation Table Definition				
Class Name		Prefix		
Base	bas	fmcivbas	Common and parent tables for Financial	
			Management Entity Set, Civilian Workforce	
			Entity Class.	

- **4.** Entity Class Material 1 Entity Sub-Class is currently established:
 - Base

Financial Management Entity Set – Material Entity Class				
Entity Sub- Abbreviation Table Definition				
Class Name		Prefix		
Base	bas	fmmatbas	Common and parent tables for Financial	
			Management Entity Set, Material Entity Class.	

5. Entity Class – Training – 1 Entity Sub-Class is currently established:

• Base

Financial Management Entity Set – Training Entity Class				
Entity Sub- Abbreviation Table Definition				
Class Name		Prefix		
Base	bas	fmtrgbas	Common and parent tables for Financial	
			Management Entity Set, Training Entity Class.	

6. Entity Class – Travel – 1 Entity Sub-Class is currently established:

Financial Management Entity Set – Travel Entity Class				
Entity Sub- Abbreviation Table Definition				
Class Name		Prefix		
Base	bas	fmtrvbas	Common and parent tables for Financial	
			Management Entity Set, Travel Entity Class.	

D. Entity Set – Public Safety Management -

- **1. Entity Class Core** 1 Entity Sub-Class is currently established:
 - Base

Public Safety Entity Set – Core Entity Class			
Entity Sub- Abbreviation Table Definition Class Name Prefix			
Base	bas	smcorbas	Common and parent tables for Public Safety Management Entity Set, Core Entity Class.

- **2.** Entity Class Explosives 4 Entity Sub-Classes are currently established:
 - Base
 - Ordnance Inventory
 - Mishap
 - UXO

Public Safety Entity Set – Explosives Entity Class			
Entity Sub-	Abbreviation	Table	Definition
Class Name		Prefix	
Base	bas	smexpbas	Common and parent tables for Public Safety
			Management Entity Set, Explosives Entity
			Class.
Ordnance	ord	smexpord	Processes and functions associated with safe
Inventory			management and control of stored ordnance.
Mishap	mis	smexpmis	Processes and functions associated with
			recording, investigation, and documentation of
			findings associated with explosives mishaps.
UXO	uxo	smexpuxo	Processes and functions associated with safe
			management and control of areas containing
			unexploded ordnance.

- **3.** Entity Class Fire 3 Entity Sub-Classes are currently established:
 - Base
 - Suppression
 - Prevention

Public Safety Entity Set – Fire Entity Class				
Entity Sub-	Entity Sub- Abbreviation Table Definition			
Class Name		Prefix		
Base	bas	smfirbas	Common and parent tables for Public Safety	
			Management Entity Set, Fire Entity Class.	
Suppression	sup	smfirsup	Processes and functions associated with the	
			suppression of fire.	
Prevention	pre	smfirpre	Processes and functions associated with the	
			prevention of fire.	

- **4. Entity Class Environmental** 3 Entity Sub-Classes are currently established:
 - Base
 - Training
 - Ergonomics

P	Public Safety Entity Set – Environmental Entity Class			
Entity Sub-	Abbreviation	Table	Definition	
Class Name		Prefix		
Base	bas	smenvbas	Common and parent tables for Public Safety	
			Management Entity Set, Environmental Entity	
			Class.	
Training	tra	smenvtra	Processes and functions associated with the	
			training of personnel in the proper use of	
			personal protective equipment (PPE) and safe	
			conductance of environmental remediation,	
			monitoring, or compliance activities.	
Ergonomics	erg	smenverg	Processes and functions associated with the	
			design and implementation of measures	
			focusing on improving working conditions	
			through prevention of noise and vibration	
			problems, prevention of electric shock hazards,	
			minimization of working conditions that	
			contribute to discomfort (e.g., control	
			temperature, humidity, lighting, color schemes,	
			furniture, computer monitors).	

5. Entity Class – Force Protection – 1 Entity Sub-Class is currently established:

• Base

Public Safety Entity Set – Force Protection Entity Class				
Entity Sub- Abbreviation Table Definition				
Class Name		Prefix		
Base	bas	smforbas	Common and parent tables for Public Safety	
			Management Entity Set, Force Protection	
			Entity Class.	

6. Entity Class – Occupational Safety & Health – 1 Entity Sub-Class is currently established:

• Base

Public Sa	Public Safety Entity Set – Occupational Safety & Health Entity Class				
Entity Sub-	Abbreviation	Table	Definition		
Class Name		Prefix			
Base	bas	smoshbas	Common and parent tables for Public Safety		
			Management Entity Set, Occupational Safety &		
			Health Entity Class.		

7. Entity Class – Emergency Response – 1 Entity Sub-Class is currently established:

Public Safety Entity Set – Emergency Response Entity Class				
Entity Sub- Abbreviation Table Definition			Definition	
Class Name		Prefix		
Base	bas	smemgbas	Common and parent tables for Public Safety	
			Management Entity Set, Emergency Response	
			Entity Class.	

E. Entity Set – Organization Management -

- **1. Entity Class Core** 1 Entity Sub-Class is currently established:
 - Base

Organization Management Entity Set – Core Entity Class			
Entity Sub- Abbreviation Table Definition Class Name Prefix			
Base	bas	omcorbas	Common and parent tables for Organization Management Entity Set, Core Entity Class.

- **2. Entity Class People –** 4 Entity Sub-Classes are currently established:
 - Base
 - Civilian
 - Military
 - Contractors

Org	Organization Management Entity Set –People Entity Class			
Entity Sub-	Abbreviation	Table	Definition	
Class Name		Prefix		
Base	bas	ompeobas	Common and parent tables for Organization	
		-	Management Entity Set, People Entity Class.	
Civilian	civ	ompeociv	Processes and functions associated with	
			organization of civilian employees.	
Military	mil	ompeomil	Processes and functions associated with	
		_	organization of military employees.	
Contractors	con	ompeocon	Processes and functions associated with	
			organization of contractor employees.	

- **3.** Entity Class Roles 1 Entity Sub-Class is currently established:
 - Base

Organization Management Entity Set –Roles Entity Class			
Entity Sub- Abbreviation Table Definition Class Name Prefix			
Base	bas	omrolbas	Common and parent tables for Organization Management Entity Set, Roles Entity Class.

4. Entity Class – Workflow – 1 Entity Sub-Class is currently established:

Organization Management Entity Set –Workflow Entity Class			
Entity Sub- Abbreviation Table Definition			
Class Name		Prefix	
Base	bas	omwrkbas	Common and parent tables for Organization
			Management Entity Set, Workflow Entity
			Class.

F. Entity Set – Information Security Management -

- **1. Entity Class Core** 1 Entity Sub-Class is currently established:
 - Base

Information Security Management Entity Set –Core Entity Class			
Entity Sub- Abbreviation Table Definition			
Class Name		Prefix	
Base	bas	imcorbas	Common and parent tables for Information
			Security Management Entity Set, Core Entity
			Class.

- **2.** Entity Class Applications 1 Entity Sub-Class is currently established:
 - Base

Information Security Management Entity Set –Applications Entity Class				
Entity Sub- Abbreviation Table Definition				
Class Name		Prefix		
Base	bas	imappbas	Common and parent tables for Information	
			Security Management Entity Set, Applications	
			Entity Class.	

- **3.** Entity Class Databases 1 Entity Sub-Class is currently established:
 - Base

Information Security Management Entity Set –Databases Entity Class				
Entity Sub- Abbreviation Table			Definition	
Class Name		Prefix		
Base	bas	imdbsbas	Common and parent tables for Information	
			Security Management Entity Set, Databases	
			Entity Class.	

4. Entity Class – Networks – 1 Entity Sub-Class is currently established:

Information Security Management Entity Set –Networks Entity Class				
Entity Sub- Abbreviation Table Definition				
Class Name		Prefix		
Base	bas	imnetbas	Common and parent tables for Information	
			Security Management Entity Set, Networks	
			Entity Class.	

Transactional FMSFIE Family Naming Conventions

Notes:

- 1. Data elements denoted in blue are included in the FY03 release of the transactional FMSFIE.
- 2. "core" ("cor"), with a mandatory sub-class of "base" ("bas"), represents a special case of the CLASS structure indicating an entity whose implementation not only crosses multiple CLASSES, but, potentially, multiple ENTITY SETS. These entities are NOT separately modeled but may be referenced from any of the Facility Management Standard Entity Sets.

Entities with a class name of "core" and a sub-class name of "base" fall into two "FAMILIES". These are "reference" ("ref"), which includes those entities containing discrete domain values referenced from multiple attributes, and "generic" ("gen") which contain entities with data common throughout the FMSFIE Standard model.

3. Reference Tables will be placed within the most appropriate Class, Subclass, & Family. Example:

FM Entity Set – Assets
Table Name – Space Type Reference
FM Entity Class – Facility
FM Entity Subclass – Building
FM Family - Space

A. Entity Set - Asset Management

- **1. Core Entity Class, Base Subclass** 1 Family is currently established:
 - Reference

Asset Management Entity Set – Core Entity Class – Base Sub-Class			
Family Name	e Abbreviation Table Definition		Definition
		Prefix	
Reference	ref	amcorbasref	Reference (Domain Tables) for Asset
			Management Entity Set, Core Entity Class,
			Base Sub-Class.

2. Facility Entity Class, Building Subclass – 9 Families are currently established:

- Architectural
- Structural
- Mechanical
- Electrical
- Plumbing
- Security
- Telecommunications
- Fire Protection
- Interior Design

Asset Management Entity Set – Facility Entity Class – Building Sub-Class			
Family Name	Abbreviation	Table Prefix	Definition
Architectural	arc	amfacblgarc	
Structural	str	amfacblgstr	
Mechanical	mec	amfacblgmec	
Electrical	ele	amfacblgele	
Plumbing	plu	amfacblgplu	
Security	sec	amfacblgsec	
Telecommunications	tel	amfacblgtel	
Fire Protection	fir	amfacblgfir	
Interior Design	int	amfacblgint	

3. Facility Entity Class, Utility Subclass – 10 Families are currently established:

- Water
- Wastewater
- Storm Water
- Fuel
- Natural Gas
- Electrical
- HVAC
- Tanks
- Cathodic Protection

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Family Name	Abbreviation	Table	Definition
		Prefix	
Water	wat	amfacutlwat	
Wastewater	wwt	amfacutlwwt	
Storm Water	swt	amfacutlswt	
Fuel	ful	amfacutlful	
Natural Gas	gas	amfacutlgas	
Electrical	ele	amfacutlele	
HVAC	hvc	amfacutlfvc	Heating, ventilation, & cooling
Tanks	tan	amfacutltan	
Cathodic	cat	amfacutlcat	
Protection			

4. Facility Entity Class, Structure Sub-Class – 10 Families are currently established:

- Vehicle
- Rail
- Air
- Pedestrian
- Marine
- Flood Control
- Navigation
- Ground Improvements
- Ports/Harbors
- Recreation
- Military Range/Training
- Signs

Asset Management Entity Set – Facility Entity Class – Structure Sub-Class			
Family Name	Abbreviation	Table Prefix	Definition
Vehicle	veh	amfacstrveh	
Rail	rai	amfacstrrai	
Air	air	amfacstrair	
Pedestrian	ped	amfacstrped	
Marine	mar	amfacstrmar	
Flood Control	flo	amfacstrflo	
Navigation	nav	amfacstrnav	
Ground Improvements	gro	amfacstrgro	
Ports & Harbors	por	amfacstrpor	
Recreation	rec	amfacstrrec	
Military Range & Training	mrt	amfacstrmrt	
Signs	sig	amfacstrsig	

B. Entity Set – Work Management –

Family sub-groups have not yet been defined.

C. Entity Set – Environmental Management -

Family sub-groups have not yet been defined.

D. Entity Set – Financial Management -

Family sub-groups have not yet been defined.

E. Entity Set – Public Safety Management -

Family sub-groups have not yet been defined.

F. Entity Set – Information Security Management -

Family sub-groups have not yet been defined.

G. Entity Set – Organization Management –

- **1. Core Entity Class, Base Subclass** 1 Family is currently established:
 - Reference

Asset Management Entity Set – Core Entity Class – Base Sub-Class			
Family Name	Abbreviation		
		Prefix	
Reference	ref	omcorbasref	Reference (Domain Tables) for Organization
			Management Entity Set, Core Entity Class,
			Base Sub-Class.